Event

MPTS AJET
AN 4501
T-45

Mission

ADVANCED AIRWAYS NAVIGATION
1.5 HOURS/X

ORM

AN 4501

- **OPERATIONAL REQUIREMENTS / LIMITATIONS**
  - **CREW REST/ CREW DAY / WORK WEEK**
  - **WARM-UP ELIGIBILITY**
  - **PREVIOUS FLIGHT COMPLETE?**
  - **IP CURRENCY**
  - **READ AND INITIAL**

- **HUMAN FACTORS**
  - **LIFE STRESSORS / EXTERNAL FACTORS/ PERSONAL PROBLEMS**
  - **MEDICAL STATUS**
    - **CREW DAY**
    - **CREW REST**
    - **NOURISHMENT**
    - **HYDRATION**

- **HAZARDS AND CONTROLS**
  - **ROUTINE**
  - **WEATHER**
    - **CURRENT OBSERVATIONS AND FORECASTS**
    - **CROSSWINDS**
    - **FUEL CONSIDERATIONS**

TTO

AN 4501

- **WHO WILL CALL A TTO?**

- **WHAT SITUATIONS WILL THE TTO BE CALLED?**
  - **SAFETY**
  - **CONFUSION**
  - **MISUNDERSTANDING**

- **IP RESPONSIBILITIES**
  - **RECOGNIZE THE NEED FOR A TTO**
  - **EXPLANATION / INSTRUCTION AS NECESSARY**
  - **DOCUMENTATION ON ATF**

- **WHEN AND HOW WILL TRAINING RESUME?**

SSR/DISCUSS ITEMS

AN 4501

- **SPECIAL SYLLABUS REQUIRMENTS:**
  - **NONE**

- **PREREQUISITES:**
  - **AN 4402**
  - **BFM 1105**

- **DISCUSS ITEMS:**
  - **NATOPS/SOP/EP QOD**
  - **IN-FLIGHT EMERGENCIES**
  - **LOST COMMUNICATIONS**

SYLLABUS NOTES

AN 4501

A. **EVENT WILL BE FLOWN FROM FRONT COCKPIT.**

B. **STUDENTS SHALL CONTACT THEIR IP PRIOR TO BRIEF TO DETERMINE THE ROUT OF FLT TO PLAN.**

C. **STUDENTS SHALL BRING A COPY OF A COMPLETED DD-175 AND JET LOG TO THE BRIEF FOR IP USE DURING THE FLT.**

D. **DURING THIS BLOCK, STUDENTS MUST FLY A MINIMUM OF THREE TOTAL APPROACHES, TO INCLUDE THE ITEMS LISTED BELOW:**

- **PRECISION APPROACH 1**
- **NON-PRECISION APPROACH 1**
- **LOW OIL APPROACH 1**

ADMIN (CARD)

AN 4501

- **A/C – ATC C/S – CREW**
- **BRIEF / WALK / TAKEOFF / LAND TIMES**
- **ATC CLEARANCE / DD-175**
- **FUEL PLAN/LADDER**
- **LINE / T/O / ABORT / RPM**
- **COMM PLAN**
- **NAV PLAN**

ADMIN

AN 4501

- **LAUNCH**
  - **WEATHER / NOTAMS / TFR / BASH**
  - **PREFLIGHT / START / TAXI**
  - **ITO**
  - **SWAPPING OF CONTROLS**
  - **ENROUTE PROCEDURES**
  - **RADALT USAGE**

- **RTB**
  - **RECOVERY**
  - **DIVERTS**

CONDUCT

AN 4501

- **TIMS RESUME REVIEW**

- **PRACTICE:**
  - **CHECKLISTS/GROUND OPS**
  - **IFR CLEARANCES**
  - **TAKEOFF/DEPARTURE/FLIGHT ADMIN**
  - **INSTRUMENT COMM**
  - **ENROUTE NAVIGATION**
  - **DESCENT/FIELD ENTRY**
  - **PRECISION APPROACH**
  - **NON-PRECISION APPROACH**
  - **MISSED APPROACH**
  - **LANDINGS**

AN 4501

BLOCK MIF

CTS REF	MANEUVER	AN4501
1	General Knowledge/Procedures	4+
2	Emergency Procedures	3
3	Headwork/Situational Awareness	4+
4	Basic Airwork	4+
5	Mission Planning/Briefing/ Debriefing	4+
6	Communications	4+
7	Ground Operations	4+
8	Flight Admin	4+
10	Takeoff	4+
11	Departure	4+
12	Enroute Navigation	4+
18	Route/Destination Change	3
15	Holding	4
16	High Altitude Penetration	4+
13	Descent/Field Entry	4+
17	Precision Approach	4+
18	Non-precision Approach	4+
20	Missed Approach	4+
23	Landings	3+

Emergencies

AN 4501

- **AIRCRAFT FALLOUT**
- **CLEAR ENGINE PROCEDURE**
- **ABORTED TAKEOFF**
- **RWY DEP / LOSS OF DIRECTIONAL CONTROL**
- **SYSTEM FAILURES/ EPs / CRM**
- **BIRD STRIKE/ MIDAIR**
- **RADIO/ ICS FAILURE**
- **LOSS OF NAVAIDS / LOST PLANE**
- **INADVERTENT IMC / LOST SIGHT / LCLS**
- **DISORIENTATION / VERTIGO**
- **HYPOXIA**
- **EJECTION (HIGH / LOW / GROUND)**
- **SAR / ON SCENE COMMANDER**
- **DIVERT(S) / BINGO FUEL TO DIVERT**

STANDARD DEBRIEFING FORMAT

AN 4501

- THE FLIGHT LEAD OR PILOT-IN-COMMAND IS RESPONSIBLE FOR ENSURING ALL FLIGHT OR CREWMEMBERS ARE THOUROUGHLY DEBRIEFED ON THE CONDUCT OF THE MISSION UTILIZING THE "S-P-B-E-MS-LL" FORMAT OUTLINED BELOW.

I. SAFETY
II. PLANNING
III. BRIEF
IV. EXECUTION
V. MISSION SUCCESS
VI. LESSONS LEARNED